

## **Multifunctional Biobased textiles**

Supervisor: Prof. Ali Tehrani

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We are now looking for a **Doctoral Researcher in Textile Chemistry**.

Our Textile Chemistry group at Aalto has an opening for a Doctoral Researcher to develop Multifunctional Biobased Textiles.

The research work involves:

- Creating eco-friendly textile post-treatment methods using safe and sustainable chemicals and processes.
- Engineering conductive biobased textiles with carbon-based fillers.
- Designing smart textiles capable of sensing various parameters, including movement and humidity.

### **Scientific environment**

The research will be carried out in the Department of Bioproducts and Biosystems in the School of Chemical Engineering at Aalto University (<http://bio2.aalto.fi/en/>). Prof. Ali Tehrani is leading the Textile Chemistry group at Aalto and will be the supervisor of the PhD student.

*In the first weeks, you will be assigned your own onboarding buddy who will help you get started with your work and studies at Aalto.*

### **Your experience and ambitions**

We expect the successful candidate to bring a genuine passion for laboratory work, conducting experiments, and interpreting results. We value excellent academic performance and dedication to learning and applying new concepts effectively.

In terms of competence and skills, we are looking for individuals who possess:

- A master's degree in textile, polymer, applied chemistry, or a related field, providing a solid educational foundation for the role.
- Exceptional proficiency in verbal and written English communication, facilitating clear and effective interaction.
- Outstanding communication skills tailored for smooth collaboration with diverse team members, fostering a positive working environment.
- A strong commitment to teamwork and multidisciplinary collaboration, recognizing the value of collective effort.
- Strong motivation and a proactive mindset, focused on achieving deliverables and accomplishing tasks effectively.

An applicant must have completed a master's degree awarded by a university by 31 July 2024 or preferably earlier (to start employment on 1 August 2024).